

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A rotary drum filter comprising:
 - (a) a drum mounted for rotation,
 - (b) a plurality of longitudinally extending division grids mounted and spaced in parallel relationship about the outer circumferential surface of the drum,
 - (c) a plurality of corrugated sheets each sheet having alternating ridges and channels extending from a leading edge to a trailing edge, the leading and trailing edges of each sheet mounted on adjacent pairs of division grids to define filtrate compartments around the circumference of the drum,
 - (d) drainage slots near the trailing edge of each channel for communication to said compartments,
 - (e) a plurality of perforated filter plates, each filter plate attached to the top of a corresponding corrugated sheet,
 - (f) a seal clip disposed at a leading edge of each corrugated sheet,
 - (g) a seal member disposed close to the underside leading edge of each corrugated sheet and engaged between the seal clip and the corrugated sheet, and
 - (h) shoulder portions on both longitudinal faces of each division grid adapted to slidably and replaceably mount respective leading and trailing edges of circumferentially adjacent corrugated sheets, and
wherein at least one of the seal clip and the seal member is partially disposed under the leading edge of the corrugated sheet.
2. (Original) The rotary drum filter according to claim 1, wherein the sealing member comprises Teflon, ethylene-propylene rubber, Viton, Gore-Tex and/or another compressible material.

3. (Original) The rotary drum filter according to claim 1, wherein the seal clip and corrugated sheet are made from a material comprising a common material, austenitic stainless steels or combinations thereof.
4. (Original) The rotary drum filter according to claim 1, wherein the seal clip is a straight shape, J shape, reverse L shape or other shape that securely anchors the seal member.
5. (Original) The rotary drum filter according to claim 1, wherein each perforated filter plate has a leading edge that is set back from the leading edge of the corresponding corrugated sheet.
6. (Original) The rotary drum filter according to claim 5, wherein each perforated filter plate has a trailing edge that is set back from the trailing edge of said corrugated sheet.
7. (Original) The rotary drum filter according to claim 6 further comprising longitudinally extending cap strips that are removably fixed to the division grids so as to overlap the leading and trailing edges of the adjacent corrugated sheets.
8. (Original) The rotary drum filter according to claim 7, wherein the cap strips are perforated.
9. (Currently amended) A filter deck assembly comprising:
 - (a) a corrugated sheet having alternating ridges and channels extending from a leading edge to a trailing edge, and having drainage slots near the trailing edge of each channel,
 - (b) a perforated filter plate attached to the top of the corrugated sheet,
 - (c) a seal clip disposed at a leading edge of the corrugated sheet, and

(d) a seal member disposed close to the underside leading edge of each corrugated sheet and engaged between the seal clip and the corrugated sheet, and wherein at least one of the seal clip and the seal member is partially disposed under the leading edge of the corrugated sheet.

10. (Original) The filter deck assembly according to claim 9, wherein the seal member comprises Teflon, ethylene-propylene rubber, Viton, Gore-Tex and/or another compressible material.

11. (Original) The filter deck assembly according to claim 9, wherein the seal clip and corrugated sheet are made from a material comprising a common material, austenitic stainless steels or combinations thereof.

12. (Original) The filter deck assembly according to claim 9, wherein each perforated filter plate has a leading edge that is set back from the leading edge of the corresponding corrugated sheet.

13. (Original) The filter deck assembly according to claim 12, wherein each perforated filter plate has a trailing edge that is set back from the trailing edge of said corrugated sheet.

14. (Original) The filter deck assembly according to claim 13 further comprising at least one longitudinally extending cap strip that can be removably fixed to a division grid in a rotary drum filter so as to overlap the leading and trailing edges of the adjacent corrugated sheets.

15. (Original) The filter deck assembly according to claim 14, wherein the cap strip is perforated.

16-20. (Cancelled).

21. (Original) A rotary drum filter comprising:

- (a) a drum mounted for rotation,
- (b) a plurality of longitudinally extending division grids mounted and spaced in parallel relationship about the outer circumferential surface of the drum,
- (c) a plurality of corrugated sheets each sheet having alternating ridges and channels extending from a leading edge to a trailing edge, the leading and trailing edges of each sheet mounted on adjacent pairs of division grids to define filtrate compartments around the circumference of the drum,
- (d) drainage slots near the trailing edge of each channel for communication to said compartments,
- (e) a plurality of perforated filter plates, each filter plate attached to the top of a corresponding corrugated sheet,
- (f) a seal clip disposed under and in front of a leading edge of each corrugated sheet,
- (g) a seal member disposed under and/or in front of the leading edge of the corrugated sheet and held in place by the seal clip, and
- (h) shoulder portions on both longitudinal faces of each division grid adapted to slidably and replaceably mount respective leading and trailing edges of circumferentially adjacent corrugated sheets.

22. (Original) The rotary drum filter according to claim 21, wherein the sealing member comprises Teflon, ethylene-propylene rubber, Viton, Gore-Tex and/or another compressible material.

23. (Original) The rotary drum filter according to claim 21, wherein the seal clip and corrugated sheet are made from a material comprising a common material, austenitic stainless steels or combinations thereof.

24. (Original) The rotary drum filter according to claim 21, wherein the seal clip is a J shape, elongated J shape, reverse L shape, elongated reverse L shape, or other shape that securely anchors the seal member.

25. (Original) The rotary drum filter according to claim 21, wherein each perforated filter plate has a leading edge that is set back from the leading edge of the corresponding corrugated sheet.

26. (Original) The rotary drum filter according to claim 25, wherein each perforated filter plate has a trailing edge that is set back from the trailing edge of said corrugated sheet.

27. (Original) The rotary drum filter according to claim 26 further comprising longitudinally extending cap strips that are removably fixed to the division grids so as to overlap the leading and trailing edges of the adjacent corrugated sheets.

28. (Original) The rotary drum filter according to claim 27, wherein the cap strips are perforated.

29. (Original) The rotary drum filter according to claim 21, wherein the seal member has a first piece and a second piece and wherein the first piece is under the leading edge of the corrugated sheet and the second piece is in front of the leading edge of the corrugated sheet.

30. (Original) A filter deck assembly comprising:

- (a) a corrugated sheet having alternating ridges and channels extending from a leading edge to a trailing edge, and having drainage slots near the trailing edge of each channel,

- (b) a perforated filter plate attached to the top of the corrugated sheet,

(c) a seal clip disposed under and in front of a leading edge of each corrugated sheet, and

(d) a seal member disposed under and/or in front of the leading edge of the corrugated sheet and held in place by the seal clip.

31. (Original) The filter deck assembly according to claim 30, wherein the seal member comprises Teflon, ethylene-propylene rubber, Viton, Gore-Tex and/or another compressible material.

32. (Original) The filter deck assembly according to claim 30, wherein the seal clip and corrugated sheet are made from a material comprising a common material, austenitic stainless steels or combinations thereof.

33. (Original) The filter deck assembly according to claim 30, wherein each perforated filter plate has a leading edge that is set back from the leading edge of the corresponding corrugated sheet.

34. (Original) The filter deck assembly according to claim 33, wherein each perforated filter plate has a trailing edge that is set back from the trailing edge of said corrugated sheet.

35. (Original) The filter deck assembly according to claim 34 further comprising at least one longitudinally extending cap strip that can be removably fixed to a division grid in a rotary drum filter so as to overlap the leading and trailing edges of the adjacent corrugated sheets.

36. (Original) The filter deck assembly according to claim 35, wherein the cap strip is perforated.

37. (Original) The filter deck assembly according to claim 30, wherein the seal member has a first piece and a second piece and wherein the first piece is under the leading edge of the corrugated sheet and the second piece is in front of the leading edge of the corrugated sheet.

38-42. (Cancelled).

43-54. (Cancelled).

55. (New) A rotary drum filter comprising:

- (a) a drum mounted for rotation,
- (b) a plurality of longitudinally extending division grids mounted and spaced in parallel relationship about the outer circumferential surface of the drum,
- (c) a plurality of corrugated sheets each sheet having alternating ridges and channels extending from a leading edge to a trailing edge, the leading and trailing edges of each sheet mounted on adjacent pairs of division grids to define filtrate compartments around the circumference of the drum,
- (d) drainage slots near the trailing edge of each channel for communication to said compartments,
- (e) a plurality of perforated filter plates, each filter plate attached to the top of a corresponding corrugated sheet,
- (f) a seal clip disposed under and in front of a leading edge of each corrugated sheet,
- (g) a seal member disposed under and/or in front of the leading edge of the corrugated sheet and held in place by the seal clip,
- (h) shoulder portions on both longitudinal faces of each division grid adapted to slidably and replaceably mount respective leading and trailing edges of circumferentially adjacent corrugated sheets, and

wherein the seal member has a first piece and a second piece, and wherein the first piece is under the leading edge of the corrugated sheet and the second piece is in front of the leading edge of the corrugated sheet.

56. (New) The rotary drum filter according to claim 55, wherein the sealing member comprises Teflon, ethylene-propylene rubber, Viton, Gore-Tex and/or another compressible material.

57. (New) The rotary drum filter according to claim 55, wherein the seal clip and corrugated sheet are made from a material comprising a common material, austenitic stainless steels or combinations thereof.

58. (New) The rotary drum filter according to claim 55, wherein the seal clip is a J shape, elongated J shape, reverse L shape, elongated reverse L shape, or other shape that securely anchors the seal member.

59. (New) The rotary drum filter according to claim 55, wherein each perforated filter plate has a leading edge that is set back from the leading edge of the corresponding corrugated sheet.

60. (New) The rotary drum filter according to claim 59, wherein each perforated filter plate has a trailing edge that is set back from the trailing edge of said corrugated sheet.

61. (New) The rotary drum filter according to claim 60 further comprising longitudinally extending cap strips that are removably fixed to the division grids so as to overlap the leading and trailing edges of the adjacent corrugated sheets.

62. (New) The rotary drum filter according to claim 61, wherein the cap strips are perforated.

63. (New) A filter deck assembly comprising:

(a) a corrugated sheet having alternating ridges and channels extending from a leading edge to a trailing edge, and having drainage slots near the trailing edge of each channel,

(b) a perforated filter plate attached to the top of the corrugated sheet,

(c) a seal clip disposed under and in front of a leading edge of each corrugated sheet,

(d) a seal member disposed under and/or in front of the leading edge of the corrugated sheet and held in place by the seal clip, and

wherein the seal member has a first piece and a second piece and wherein the first piece is under the leading edge of the corrugated sheet and the second piece is in front of the leading edge of the corrugated sheet.

64. (New) The filter deck assembly according to claim 63, wherein the seal member comprises Teflon, ethylene-propylene rubber, Viton, Gore-Tex and/or another compressible material.

65. (New) The filter deck assembly according to claim 63, wherein the seal clip and corrugated sheet are made from a material comprising a common material, austenitic stainless steels or combinations thereof.

66. (New) The filter deck assembly according to claim 63, wherein each perforated filter plate has a leading edge that is set back from the leading edge of the corresponding corrugated sheet.

67. (New) The filter deck assembly according to claim 66, wherein each perforated filter plate has a trailing edge that is set back from the trailing edge of said corrugated sheet.

68. (New) The filter deck assembly according to claim 67 further comprising at least one longitudinally extending cap strip that can be removably fixed to a division grid in

a rotary drum filter so as to overlap the leading and trailing edges of the adjacent corrugated sheets.

69. (New) The filter deck assembly according to claim 68, wherein the cap strip is perforated.